

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-87320-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 02/06/2013
 Date: 02/28/2013
 Date: 03/28/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 020513-RB-Bowls+Spoons (680-87170-29).	

¹ Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (020513-RB-Bowls+Spoons) was collected during the week of 02/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87170-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			FM0123A-CS and FM0123A-CSD (680-87320-3 and 680-87320-4)	
15. Was precision deemed acceptable as defined by the project plans?		✓		See Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Initial Calibration: 01/30/2013, instrument BSMA5973 • ICV: 01/30/2013 @13:35 • CCV: 02/19/2013 @10:52 • Initial Calibration: 01/07/2013, instrument BSMC5973 • ICV: 01/07/2013 @17:31 • CCV: 02/19/2013 @11:06 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, 		✓		ICV of 01/30/13 @ 13:35, instrument BSMA5973: 2-Methylnaphthalene @23.7 %D (Lab: ≤ 35 , Project: ≤ 20). Positive bias is indicated by the CCV percent difference; therefore, J flag the detected 2-methyl naphthalene result in associated samples ² .	J

² 680-87320-1 through 12

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects</p> <ul style="list-style-type: none"> ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects ● ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects		✓		LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> ● Prep Batch 134515: 680-87320-1 (FM0018A-CS), MS/MSD ● Prep Batch 134575: 680-87320-21 (Batch sample), MS/MSD 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> ● If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. ● If either MS or MSD recovery meets control limits, qualification of data is not warranted. ● MS and MSD %R<10: J and R Flag positive and ND results, respectively ● MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results ● MS and MSD R% >UCL (or 140): J-Flag positive results 	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> ● If the native sample concentration > 4x spiking level, then an 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>evaluation of interference is not possible.</p> <ul style="list-style-type: none"> If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 					
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> If %R <10, then J-flag positive and R-flag non-detect associated sample results If %R >UCL, then J-flag positive results %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 1 %R >UCL and 1 %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
<p>Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review (EPA, October 1999) and USEPA CLP NFG for Low Concentration Organic Methods Data Review (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

Data Validation Checklist (Continued)

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87320-1	FM0018A-CS	Solid	02/06/13 09:05	02/09/13 09:34
680-87320-2	FM0034A-CS	Solid	02/06/13 10:20	02/09/13 09:34
680-87320-3	FM0123A-CS	Solid	02/06/13 08:34	02/09/13 09:34
680-87320-4	FM0123A-CSD	Solid	02/06/13 08:40	02/09/13 09:34
680-87320-5	FM0138C-CS	Solid	02/06/13 10:45	02/09/13 09:34
680-87320-6	FM0153B-CS	Solid	02/06/13 09:56	02/09/13 09:34
680-87320-7	CV0748W-CS	Solid	02/06/13 08:51	02/09/13 09:34
680-87320-8	CV0748Y-CS	Solid	02/06/13 09:06	02/09/13 09:34
680-87320-9	CV0748AA-CS	Solid	02/06/13 09:29	02/09/13 09:34
680-87320-10	CV0748BB-CS	Solid	02/06/13 09:24	02/09/13 09:34
680-87320-11	CV0748CC-CS	Solid	02/06/13 09:37	02/09/13 09:34
680-87320-12	CV0748DD-CS	Solid	02/06/13 09:39	02/09/13 09:34
680-87320-13	CV0748EE-CS	Solid	02/06/13 09:45	02/09/13 09:34
680-87320-14	CV0748II-CS	Solid	02/06/13 10:11	02/09/13 09:34
680-87320-15	CV0748JJ-CS	Solid	02/06/13 10:32	02/09/13 09:34
680-87320-16	CV0748NN-CS	Solid	02/06/13 11:06	02/09/13 09:34
680-87320-17	CV0748OO-CS	Solid	02/06/13 11:08	02/09/13 09:34
680-87320-18	CV0748QQ-CS	Solid	02/06/13 11:12	02/09/13 09:34
680-87320-19	CV0748AC-GS	Solid	02/06/13 10:14	02/09/13 09:34
680-87320-20	CV0748AB-GS	Solid	02/06/13 09:18	02/09/13 09:34

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0123A-CS (680-87320-3)	RL	FM0123A-CSD (680-87320-4)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	110	210	62	200	µg/kg	1025	NA	48	410	None, absolute difference \leq 2x Avg RL
Anthracene	130	44	130	42	µg/kg	215	NA	0	86	None, absolute difference \leq 2x Avg RL
Benzo(a)anthracene	400	42	500	40	µg/kg	205	22	NA	NA	None, RPD \leq 50%
Benzo(a)pyrene	170	55	240	52	µg/kg	267.5	NA	70	107	None, absolute difference \leq 2x Avg RL
Benzo(b)fluoranthene	360	65	400	62	µg/kg	317.5	11	NA	NA	None, RPD \leq 50%
Benzo(g,h,i)perylene	240	110	210	100	µg/kg	525	NA	30	210	None, absolute difference \leq 2x Avg RL
Benzo(k)fluoranthene	91	42	120	40	µg/kg	205	NA	29	82	None, absolute difference \leq 2x Avg RL
Chrysene	330	48	400	45	µg/kg	232.5	19	NA	NA	None, RPD \leq 50%
Dibenzo(a,h)anthracene	90	110	87	100	µg/kg	525	NA	3	210	None, absolute difference \leq 2x Avg RL
Fluoranthene	400	110	730	100	µg/kg	525	NA	330	210	J/UJ-flag, absolute difference $>$ 2x Avg RL
Fluorene	25	110		100	µg/kg	525	NA	25	210	None, absolute difference \leq 2x Avg RL
Indeno(1,2,3-cd)pyrene	200	110	210	100	µg/kg	525	NA	10	210	None, absolute difference \leq 2x Avg RL
1-Methylnaphthalene	140	210	160	200	µg/kg	1025	NA	20	410	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	150	210	210	200	µg/kg	1025	NA	60	410	None, absolute difference \leq 2x Avg RL
Naphthalene	150	210	170	200	µg/kg	1025	NA	20	410	None, absolute difference \leq 2x Avg RL
Phenanthrene	420	42	480	40	µg/kg	205	13	NA	NA	None, RPD \leq 50%
Pyrene	340	110	490	100	µg/kg	525	NA	150	210	None, absolute difference \leq 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
SDG: 68087320-1

Job ID: 680-87320-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87320-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0018A-CS (680-87320-1), FM0034A-CS (680-87320-2), FM0123A-CS (680-87320-3), FM0123A-CSD (680-87320-4), FM0138C-CS (680-87320-5), FM0153B-CS (680-87320-6), CV0748W-CS (680-87320-7), CV0748Y-CS (680-87320-8), CV0748AA-CS (680-87320-9), CV0748BB-CS (680-87320-10), CV0748CC-CS (680-87320-11), CV0748DD-CS (680-87320-12), CV0748EE-CS (680-87320-13), CV0748II-CS (680-87320-14), CV0748JJ-CS (680-87320-15), CV0748NN-CS (680-87320-16), CV0748OO-CS (680-87320-17), CV0748QQ-CS (680-87320-18), CV0748AC-GS (680-87320-19) and CV0748AB-GS (680-87320-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/15/2013 and 02/18/2013 and analyzed on 02/19/2013.

Samples FM0018A-CS (680-87320-1)[4X], FM0034A-CS (680-87320-2)[4X], FM0123A-CS (680-87320-3)[4X], FM0123A-CSD (680-87320-4)[4X], FM0153B-CS (680-87320-6)[4X], CV0748W-CS (680-87320-7)[4X], CV0748Y-CS (680-87320-8)[4X], CV0748BB-CS (680-87320-10)[4X], CV0748CC-CS (680-87320-11)[4X], CV0748DD-CS (680-87320-12)[4X], CV0748EE-CS (680-87320-13)[4X], CV0748II-CS (680-87320-14)[4X], CV0748JJ-CS (680-87320-15)[4X], CV0748NN-CS (680-87320-16)[4X], CV0748OO-CS (680-87320-17)[4X], CV0748QQ-CS (680-87320-18)[4X], CV0748AC-GS (680-87320-19)[4X] and CV0748AB-GS (680-87320-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-87320-21 in batch 660-134673.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: FM0018A-CS

Date Collected: 02/06/13 09:05

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-1

Matrix: Solid

Percent Solids: 87.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Acenaphthylene	180	U	180	22	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Anthracene	26	J	38	19	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Benzo[a]anthracene	120		36	18	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Benzo[a]pyrene	60		47	23	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Benzo[b]fluoranthene	95		55	27	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Benzo[g,h,i]perylene	91		90	20	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Benzo[k]fluoranthene	35	J	36	16	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Chrysene	160		40	20	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Dibenz(a,h)anthracene	39	J	90	18	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Fluoranthene	98		90	18	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Fluorene	90	U	90	18	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Indeno[1,2,3-cd]pyrene	66	J	90	32	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
1-Methylnaphthalene	66	J	180	20	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
2-Methylnaphthalene	78	J	180	32	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Naphthalene	70	J	180	20	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Phenanthrene	160		36	18	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Pyrene	94		90	17	ug/Kg	o	02/15/13 10:18	02/19/13 15:27	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		76			30 - 130		02/15/13 10:18	02/19/13 15:27	4

Client Sample ID: FM0034A-CS

Date Collected: 02/06/13 10:20

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-2

Matrix: Solid

Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Acenaphthylene	200	U	200	26	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Anthracene	43	U	43	21	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Benzo[a]anthracene	120		41	20	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Benzo[a]pyrene	47	J	53	27	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Benzo[b]fluoranthene	70		62	31	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Benzo[g,h,i]perylene	65	J	100	22	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Benzo[k]fluoranthene	26	J	41	18	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Chrysene	72		46	23	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Dibenz(a,h)anthracene	25	J	100	21	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Fluoranthene	90	J	100	20	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Fluorene	100	U	100	21	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Indeno[1,2,3-cd]pyrene	53	J	100	36	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
1-Methylnaphthalene	36	J	200	22	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
2-Methylnaphthalene	38	J	200	36	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Naphthalene	58	J	200	22	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Phenanthrene	83		41	20	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Pyrene	58	J	100	19	ug/Kg	o	02/15/13 10:18	02/19/13 16:13	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		83			30 - 130		02/15/13 10:18	02/19/13 16:13	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: FM0123A-CS

Date Collected: 02/06/13 08:34
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-3
 Matrix: Solid
 Percent Solids: 75.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Acenaphthylene	110	J	210	26	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Anthracene	130		44	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Benzo[a]anthracene	400		42	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Benzo[a]pyrene	170		55	28	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Benzo[b]fluoranthene	360		65	32	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Benzo[g,h,i]perylene	240		110	23	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Benzo[k]fluoranthene	91		42	19	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Chrysene	330		48	24	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Dibenz(a,h)anthracene	90	J	110	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Fluoranthene	400	J	110	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Fluorene	25	J	110	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Indeno[1,2,3-cd]pyrene	200		110	38	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
1-Methylnaphthalene	140	J	210	23	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
2-Methylnaphthalene	150	J	210	38	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Naphthalene	150	J	210	23	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Phenanthrene	420		42	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Pyrene	340		110	20	ug/Kg	∅	02/15/13 10:18	02/19/13 16:27	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		81			30 - 130		02/15/13 10:18	02/19/13 16:27	4

Client Sample ID: FM0123A-CSD

Date Collected: 02/06/13 08:40
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-4
 Matrix: Solid
 Percent Solids: 76.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Acenaphthylene	62	J	200	25	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Anthracene	130		42	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Benzo[a]anthracene	500		40	20	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Benzo[a]pyrene	240		52	26	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Benzo[b]fluoranthene	400		62	31	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Benzo[g,h,i]perylene	210		100	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Benzo[k]fluoranthene	120		40	18	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Chrysene	400		45	23	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Dibenz(a,h)anthracene	87	J	100	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Fluoranthene	730	J	100	20	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Fluorene	100	U	100	21	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Indeno[1,2,3-cd]pyrene	210		100	36	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
1-Methylnaphthalene	160	J	200	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
2-Methylnaphthalene	210	J	200	36	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Naphthalene	170	J	200	22	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Phenanthrene	480		40	20	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Pyrene	490		100	19	ug/Kg	∅	02/15/13 10:18	02/19/13 16:42	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		74			30 - 130		02/15/13 10:18	02/19/13 16:42	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: FM0138C-CS

Date Collected: 02/06/13 10:45
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-5

Matrix: Solid
 Percent Solids: 87.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Acenaphthylene	45	U	45	5.6	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Anthracene	9.4	U	9.4	4.7	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Benzo[a]anthracene	19		9.0	4.4	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Benzo[a]pyrene	13		12	5.8	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Benzo[b]fluoranthene	24		14	6.9	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Benzo[g,h,i]perylene	18	J	22	4.9	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Benzo[k]fluoranthene	9.5		9.0	4.0	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Chrysene	35		10	5.1	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Dibenz(a,h)anthracene	22	U	22	4.6	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Fluoranthene	26		22	4.5	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Fluorene	22	U	22	4.6	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Indeno[1,2,3-cd]pyrene	11	J	22	8.0	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
1-Methylnaphthalene	13	J	45	4.9	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
2-Methylnaphthalene	20	J	45	8.0	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Naphthalene	19	J	45	4.9	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Phenanthrene	30		9.0	4.4	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Pyrene	18	J	22	4.2	ug/Kg	◊	02/15/13 10:18	02/19/13 16:58	1
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		62		30 - 130			02/15/13 10:18	02/19/13 16:58	1

Client Sample ID: FM0153B-CS

Date Collected: 02/06/13 09:56
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-6

Matrix: Solid
 Percent Solids: 81.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Acenaphthylene	49	J	200	24	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Anthracene	79		41	20	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Benzo[a]anthracene	170		39	19	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Benzo[a]pyrene	130		51	25	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Benzo[b]fluoranthene	250		59	30	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Benzo[g,h,i]perylene	170		98	21	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Benzo[k]fluoranthene	70		39	18	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Chrysene	270		44	22	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Dibenz(a,h)anthracene	62	J	98	20	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Fluoranthene	160		98	20	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Fluorene	31	J	98	20	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Indeno[1,2,3-cd]pyrene	130		98	35	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
1-Methylnaphthalene	150	J	200	21	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
2-Methylnaphthalene	210	J	200	35	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Naphthalene	140	J	200	21	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Phenanthrene	250		39	19	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Pyrene	140		98	18	ug/Kg	◊	02/15/13 10:18	02/19/13 17:13	4
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		93		30 - 130			02/15/13 10:18	02/19/13 17:13	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748W-CS

Date Collected: 02/06/13 08:51
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-7
 Matrix: Solid
 Percent Solids: 74.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Acenaphthylene	81	J	210	27	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Anthracene	98		45	23	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Benzo[a]anthracene	350		43	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Benzo[a]pyrene	230		56	28	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Benzo[b]fluoranthene	350		65	33	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Benzo[g,h,i]perylene	280		110	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Benzo[k]fluoranthene	160		43	19	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Chrysene	430		48	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Dibenz(a,h)anthracene	84	J	110	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Fluoranthene	430		110	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Fluorene	27	J	110	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Indeno[1,2,3-cd]pyrene	220		110	38	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
1-Methylnaphthalene	170	J	210	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
2-Methylnaphthalene	170	✓ J	210	38	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Naphthalene	130	J	210	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Phenanthrene	350		43	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Pyrene	340		110	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:28	4
Surrogate		%Recovery	Qualifier		Limits				
<i>o-Terphenyl</i>		83			30 - 130				
							Prepared	Analyzed	Dil Fac
							02/15/13 10:18	02/19/13 17:28	4

Client Sample ID: CV0748Y-CS

Date Collected: 02/06/13 09:06
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-8
 Matrix: Solid
 Percent Solids: 72.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Acenaphthylene	170	J	220	27	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Anthracene	220		46	23	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Benzo[a]anthracene	710		43	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Benzo[a]pyrene	400		56	28	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Benzo[b]fluoranthene	640		66	33	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Benzo[g,h,i]perylene	370		110	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Benzo[k]fluoranthene	230		43	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Chrysene	670		49	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Dibenz(a,h)anthracene	130		110	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Fluoranthene	900		110	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Fluorene	30	J	110	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Indeno[1,2,3-cd]pyrene	350		110	39	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
1-Methylnaphthalene	200	J	220	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
2-Methylnaphthalene	260	J	220	39	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Naphthalene	220		220	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Phenanthrene	530		43	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Pyrene	700		110	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:43	4
Surrogate		%Recovery	Qualifier		Limits				
<i>o-Terphenyl</i>		71			30 - 130				
							Prepared	Analyzed	Dil Fac
							02/15/13 10:18	02/19/13 17:43	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748AA-CS

Date Collected: 02/06/13 09:29
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-9

Matrix: Solid
 Percent Solids: 81.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Acenaphthylene	45	J	48	6.0	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Anthracene	62		10	5.0	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Benzo[a]anthracene	280		9.6	4.7	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Benzo[a]pyrene	180		12	6.2	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Benzo[b]fluoranthene	290		15	7.3	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Benzo[g,h,i]perylene	140		24	5.3	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Benzo[k]fluoranthene	85		9.6	4.3	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Chrysene	230		11	5.4	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Dibenz(a,h)anthracene	49		24	4.9	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Fluoranthene	330		24	4.8	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Fluorene	12	J	24	4.9	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Indeno[1,2,3-cd]pyrene	120		24	8.5	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
1-Methylnaphthalene	40	J	48	5.3	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
2-Methylnaphthalene	59	J	48	8.5	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Naphthalene	47	J	48	5.3	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Phenanthrene	180		9.6	4.7	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Pyrene	280		24	4.4	ug/Kg	⊗	02/15/13 10:18	02/19/13 17:58	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		61		30 - 130			02/15/13 10:18	02/19/13 17:58	1

Client Sample ID: CV0748BB-CS

Date Collected: 02/06/13 09:24
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-10

Matrix: Solid
 Percent Solids: 81.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Acenaphthylene	65	J	200	24	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Anthracene	94		41	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Benzo[a]anthracene	390		39	19	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Benzo[a]pyrene	200		51	25	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Benzo[b]fluoranthene	350		60	30	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Benzo[g,h,i]perylene	220		98	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Benzo[k]fluoranthene	110		39	18	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Chrysene	320		44	22	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Dibenz(a,h)anthracene	81	J	98	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Fluoranthene	480		98	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Fluorene	98	U	98	20	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Indeno[1,2,3-cd]pyrene	210		98	35	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
1-Methylnaphthalene	110	J	200	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
2-Methylnaphthalene	140	J	200	35	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Naphthalene	110	J	200	21	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Phenanthrene	270		39	19	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Pyrene	330		98	18	ug/Kg	⊗	02/15/13 10:18	02/19/13 18:13	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		67		30 - 130			02/15/13 10:18	02/19/13 18:13	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748CC-CS

Date Collected: 02/06/13 09:37
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-11

Matrix: Solid
 Percent Solids: 73.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Acenaphthylene	110	J	220	27	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Anthracene	190		46	23	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Benzo[a]anthracene	520		44	21	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Benzo[a]pyrene	320		57	28	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Benzo[b]fluoranthene	660		67	33	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Benzo[g,h,i]perylene	300		110	24	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Benzo[k]fluoranthene	150		44	20	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Chrysene	510		49	25	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Dibenz(a,h)anthracene	130		110	22	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Fluoranthene	630		110	22	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Fluorene	33	J	110	22	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Indeno[1,2,3-cd]pyrene	240		110	39	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
1-Methylnaphthalene	160	J	220	24	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
2-Methylnaphthalene	170	✓ J	220	39	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Naphthalene	140	J	220	24	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Phenanthrene	430		44	21	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Pyrene	460		110	20	ug/Kg	∅	02/15/13 10:18	02/19/13 18:28	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	78			30 - 130			02/15/13 10:18	02/19/13 18:28	4

Client Sample ID: CV0748DD-CS

Date Collected: 02/06/13 09:39
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-12

Matrix: Solid
 Percent Solids: 76.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Acenaphthylene	73	J	210	26	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Anthracene	150		43	22	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Benzo[a]anthracene	410		41	20	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Benzo[a]pyrene	260		53	27	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Benzo[b]fluoranthene	460		63	31	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Benzo[g,h,i]perylene	240		100	23	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Benzo[k]fluoranthene	150		41	19	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Chrysene	430		46	23	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Dibenz(a,h)anthracene	85	J	100	21	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Fluoranthene	570		100	21	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Fluorene	27	J	100	21	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Indeno[1,2,3-cd]pyrene	170		100	37	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
1-Methylnaphthalene	190	J	210	23	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
2-Methylnaphthalene	180	✓ J	210	37	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Naphthalene	160	J	210	23	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Phenanthrene	430		41	20	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Pyrene	400		100	19	ug/Kg	∅	02/15/13 10:18	02/19/13 18:43	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	70			30 - 130			02/15/13 10:18	02/19/13 18:43	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748EE-CS

Date Collected: 02/06/13 09:45
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-13

Matrix: Solid
 Percent Solids: 77.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Acenaphthylene	54	J	200	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Anthracene	79		43	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Benzo[a]anthracene	460		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Benzo[a]pyrene	410		53	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Benzo[b]fluoranthene	630		62	31	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Benzo[g,h,i]perylene	360		100	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Benzo[k]fluoranthene	280		41	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Chrysene	530		46	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Dibenz(a,h)anthracene	110		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Fluoranthene	730		100	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Fluorene	37	J	100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Indeno[1,2,3-cd]pyrene	220		100	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
1-Methylnaphthalene	220		200	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
2-Methylnaphthalene	180	J	200	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Naphthalene	140	J	200	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Phenanthrene	460		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Pyrene	650		100	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:23	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		109			30 - 130		02/18/13 11:03	02/19/13 15:23	4

Client Sample ID: CV0748II-CS

Date Collected: 02/06/13 10:11
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-14

Matrix: Solid
 Percent Solids: 76.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Acenaphthylene	41	J	210	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Anthracene	55		44	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Benzo[a]anthracene	380		42	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Benzo[a]pyrene	320		54	27	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Benzo[b]fluoranthene	530		64	32	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Benzo[g,h,i]perylene	280		100	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Benzo[k]fluoranthene	210		42	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Chrysene	450		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Dibenz(a,h)anthracene	89	J	100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Fluoranthene	540		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Fluorene	29	J	100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Indeno[1,2,3-cd]pyrene	220		100	37	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
1-Methylnaphthalene	280		210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
2-Methylnaphthalene	320		210	37	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Naphthalene	190	J	210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Phenanthrene	390		42	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Pyrene	510		100	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 15:41	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		103			30 - 130		02/18/13 11:03	02/19/13 15:41	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748JJ-CS

Date Collected: 02/06/13 10:32

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-15

Matrix: Solid

Percent Solids: 78.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Acenaphthylene	48	J	210	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Anthracene	130		43	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Benzo[a]anthracene	590		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Benzo[a]pyrene	470		53	27	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Benzo[b]fluoranthene	750		63	31	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Benzo[g,h,i]perylene	330		100	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Benzo[k]fluoranthene	300		41	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Chrysene	640		46	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Dibenz(a,h)anthracene	100		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Fluoranthene	1100		100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Fluorene	50	J	100	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Indeno[1,2,3-cd]pyrene	280		100	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
1-Methylnaphthalene	180	J	210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
2-Methylnaphthalene	230		210	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Naphthalene	140	J	210	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Phenanthrene	800		41	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Pyrene	1200		100	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:00	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl		96		30 - 130			02/18/13 11:03	02/19/13 16:00	4

Client Sample ID: CV0748NN-CS

Date Collected: 02/06/13 11:06

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-16

Matrix: Solid

Percent Solids: 81.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Acenaphthylene	30	J	190	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Anthracene	160		40	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Benzo[a]anthracene	690		38	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Benzo[a]pyrene	560		50	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Benzo[b]fluoranthene	860		59	29	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Benzo[g,h,i]perylene	400		96	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Benzo[k]fluoranthene	410		38	17	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Chrysene	600		43	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Dibenz(a,h)anthracene	140		96	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Fluoranthene	1100		96	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Fluorene	59	J	96	20	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Indeno[1,2,3-cd]pyrene	320		96	34	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
1-Methylnaphthalene	140	J	190	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
2-Methylnaphthalene	170	J	190	34	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Naphthalene	160	J	190	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Phenanthrene	720		38	19	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Pyrene	920		96	18	ug/Kg	⊗	02/18/13 11:03	02/19/13 16:18	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl		111		30 - 130			02/18/13 11:03	02/19/13 16:18	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748OO-CS

Date Collected: 02/06/13 11:08
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-17

Matrix: Solid
 Percent Solids: 74.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Acenaphthylene	53	J	210	26	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Anthracene	64		44	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Benzo[a]anthracene	360		42	21	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Benzo[a]pyrene	340		55	27	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Benzo[b]fluoranthene	580		64	32	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Benzo[g,h,i]perylene	270		110	23	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Benzo[k]fluoranthene	180		42	19	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Chrysene	400		47	24	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Dibenz(a,h)anthracene	79	J	110	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Fluoranthene	520		110	21	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Fluorene	25	J	110	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Indeno[1,2,3-cd]pyrene	200		110	37	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
1-Methylnaphthalene	150	J	210	23	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
2-Methylnaphthalene	190	J	210	37	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Naphthalene	130	J	210	23	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Phenanthrene	320		42	21	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Pyrene	520		110	19	ug/Kg	◊	02/18/13 11:03	02/19/13 16:36	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		86		30 - 130			02/18/13 11:03	02/19/13 16:36	4

Client Sample ID: CV0748QQ-CS

Date Collected: 02/06/13 11:12
 Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-18

Matrix: Solid
 Percent Solids: 73.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Acenaphthylene	43	J	220	27	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Anthracene	47		45	23	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Benzo[a]anthracene	340		43	21	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Benzo[a]pyrene	360		56	28	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Benzo[b]fluoranthene	530		66	33	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Benzo[g,h,i]perylene	280		110	24	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Benzo[k]fluoranthene	240		43	19	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Chrysene	370		49	24	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Dibenz(a,h)anthracene	81	J	110	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Fluoranthene	460		110	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Fluorene	110	U	110	22	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Indeno[1,2,3-cd]pyrene	220		110	38	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
1-Methylnaphthalene	150	J	220	24	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
2-Methylnaphthalene	130	J	220	38	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Naphthalene	130	J	220	24	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Phenanthrene	290		43	21	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Pyrene	450		110	20	ug/Kg	◊	02/18/13 11:03	02/19/13 16:55	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		97		30 - 130			02/18/13 11:03	02/19/13 16:55	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87320-1
 SDG: 68087320-1

Client Sample ID: CV0748AC-GS

Date Collected: 02/06/13 10:14

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-19

Matrix: Solid

Percent Solids: 67.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Acenaphthylene	68	J	240	29	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Anthracene	88		49	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Benz[a]anthracene	460		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Benz[a]pyrene	430		61	31	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Benz[b]fluoranthene	770		72	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Benz[g,h,i]perylene	420		120	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Benz[k]fluoranthene	320		47	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Chrysene	540		53	27	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Dibenz(a,h)anthracene	110	J	120	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Fluoranthene	690		120	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Fluorene	34	J	120	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Indeno[1,2,3-cd]pyrene	300		120	42	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
1-Methylnaphthalene	240		240	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
2-Methylnaphthalene	260		240	42	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Naphthalene	270		240	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Phenanthrene	450		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Pyrene	630		120	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:13	4
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		72		30 - 130			02/18/13 11:03	02/19/13 17:13	4

Client Sample ID: CV0748AB-GS

Date Collected: 02/06/13 09:18

Date Received: 02/09/13 09:34

Lab Sample ID: 680-87320-20

Matrix: Solid

Percent Solids: 67.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Acenaphthylene	62	J	230	29	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Anthracene	100		49	25	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Benz[a]anthracene	560		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Benz[a]pyrene	470		61	30	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Benz[b]fluoranthene	980		71	36	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Benz[g,h,i]perylene	410		120	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Benz[k]fluoranthene	260		47	21	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Chrysene	750		53	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Dibenz(a,h)anthracene	110	J	120	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Fluoranthene	1000		120	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Fluorene	43	J	120	24	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Indeno[1,2,3-cd]pyrene	330		120	41	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
1-Methylnaphthalene	270		230	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
2-Methylnaphthalene	340		230	41	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Naphthalene	300		230	26	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Phenanthrene	680		47	23	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Pyrene	930		120	22	ug/Kg	⊗	02/18/13 11:03	02/19/13 17:31	4
Surrogate		%Recovery		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		89		30 - 130			02/18/13 11:03	02/19/13 17:31	4

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)